

Amendment and Response

Applicant: Peter G. Hwang et al.

Serial No.: 10/698,823

Filed: October 31, 2003

Docket No.: 200206327-1

Title: IMAGING APPARATUS WITH STOWABLE MEDIA TRAY

IN THE CLAIMS

Please add claims 48-54.

Please amend claims 1, 19, 22, 31, 33, 35, 38, 39, and 44 as follows:

1. (Currently Amended) An imaging apparatus comprising:
a housing having an interior portion defining a cavity;
a carriage and a carriage rod disposed within the cavity;
a cover pivotally attached to the housing and configured to cover the cavity;
a first media tray movably attached to the interior portion of the housing;
a second media tray movably attached to the interior portion of the housing,
wherein the second media tray and the first media tray are movable between a stowed position substantially within the cavity, and a deployed position substantially outside the cavity,
wherein one of the first media tray or the second media tray provides an input tray for the imaging apparatus, and the other of the first media tray or the second media tray provides an output tray for the imaging apparatus,
wherein the cover covers the first media tray and the second media tray when the first media tray and the second media tray are in the stowed position.
wherein one of the second media tray or the first media tray is positioned over the other of the second media tray or the first media tray when the second media tray and the first media tray are in the deployed position.
2. (Previously Presented) The imaging apparatus of claim 1 wherein the second media tray is attached to the interior portion of the housing with a hinge.
3. (Previously Presented) The imaging apparatus of claim 1 wherein the first media tray is attached to the interior portion of the housing with a hinge.
4. (Previously Presented) The imaging apparatus of claim 1 wherein the second media tray is attached to the interior portion of the housing with a first hinge, and the first media tray is attached to the interior portion of the housing with a second hinge.

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5. (Previously Presented) The imaging apparatus of claim 1 further comprising a link pivotally attached to the interior portion of the housing with a third hinge, wherein one of the first media tray or the second media tray is attached to the interior portion of the housing with a first hinge, and the other of the first media tray or the second media tray is attached to the link with a second hinge.

6. (Previously Presented) The imaging apparatus of claim 1 wherein the second media tray is positioned near the first media tray when the first media tray and the second media tray are in the deployed position.

7. (Previously Presented) The imaging apparatus of claim 1 wherein the first media tray is positioned over the second media tray when the second media tray and the first media tray are in the deployed position.

8. (Cancelled)

9. (Previously Presented) The imaging apparatus of claim 1 wherein the second media tray and the first media tray are positioned substantially directly over each other when the second media tray and the first media tray are in the deployed position.

10. (Previously Presented) The imaging apparatus of claim 1 wherein the cover covers the interior portion of the housing when the second media tray and the first media tray are in the stowed position.

11. (Previously Presented) The imaging apparatus of claim 1 wherein the cover is movable between an open position and a closed position when the second media tray and the first media tray are in the deployed position.

12. (Previously Presented) The imaging apparatus of claim 1 wherein the cover is movable between an open position and a closed position when the second media tray and the first media tray are in the stowed position.

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13. (Previously Presented) The imaging apparatus of claim 1 wherein the housing includes a first side and a second side, wherein the second media tray and the first media tray are both positioned on one of the first side or the second side when the second media tray and the first media tray are in the deployed position.

14. (Previously Presented) The imaging apparatus of claim 1 further comprising a link pivotally attached to the interior portion of the housing with a third hinge, wherein one of the second media tray or the first media tray is attached to the interior portion of the housing with a first hinge, and the other of the second media tray or the first media tray is attached to the link with a second hinge and the other of the second media tray or the first media tray further comprising a slidably engaged extension member.

15-18. (Cancelled)

19. (Currently Amended) An imaging apparatus comprising:

a first media tray;

a second media tray;

a housing having an interior cavity ~~portion therein~~ and an opening to the interior cavity;

a print engine disposed in the interior cavity; and

means for allowing movement of the first media tray and the second media tray between a deployed position where at least a portion of the first media tray and the second media tray are positioned outside the interior cavity, and a stowed position where the first media tray and the second media tray are positioned within the interior cavity ~~of the housing,~~ wherein one of the first media tray or the second media tray provides an input tray for the imaging apparatus, and the other of the first media tray or the second media tray provides an output tray for the imaging apparatus,

wherein the first media tray and the second media tray extend through the opening when the first media tray and the second media tray are in the deployed position.

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wherein one of the second media tray or the first media tray is positioned over the other of the second media tray or the first media tray when the second media tray and the first media tray are in the deployed position.

20. (Previously Presented) The imaging apparatus of claim 19 wherein means for allowing movement of the first media tray and the second media tray further includes at least one of the first media tray and the second media tray including:

a first hinge positioned near one end of the at least one of the first media tray and the second media tray and attached to the interior cavity of the housing;

a second hinge for allowing a first portion of at least one of the first media tray and the second media tray to fold with respect to a second portion of the at least one of the first media tray and the second media tray; and

a slideable portion for allowing a third portion of the at least one of the first media tray and the second media tray to slide with respect to another portion of the at least one of the first media tray and the second media tray.

21. (Previously Presented) The imaging apparatus of claim 20 wherein means for allowing movement of the first media tray and the second media tray further includes a third hinge positioned near one end of the other of the at least one of the first media tray and the second media tray and attached to the interior cavity of the housing.

22. (Currently Amended) A method for moving a first media tray and a second media tray from a stowed position to a deployed position comprising:

opening a lid that covers at least an interior cavity in a housing and an opening in the housing to the interior cavity;

rotating a first media tray pivotally connected within the interior cavity of the housing from a stowed position substantially within the cavity of the housing to a deployed position where the first media tray extends through the opening and is substantially outside the cavity of the housing;

rotating a second media tray pivotally connected within the interior cavity of the housing from a stowed position substantially within the cavity of the housing to a deployed

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position where the second media tray extends through the opening and is substantially outside the cavity of the housing;

rotating a first portion of the second media tray with respect to a second portion of the second media tray, wherein the second portion of the media tray is rotatably attached to the interior cavity of the housing near one end of the second portion and wherein the second portion is rotatably attached to the first portion of the second media tray at the other end of the second portion; and

sliding a third portion of the second media tray with respect to the second portion of the second media tray,

wherein one of the first media tray or the second media tray provides an input tray, and the other of the first media tray or the second media tray provides an output tray.

23. (Original) The method of claim 22 wherein the first media tray is placed below the second media tray, the method further comprising presenting media in the second media tray such that the media substantially covers the first media tray and the second media tray.

24. (Original) The method of claim 22 further comprising positioning a paper stop near the end of the second media tray.

25. (Original) The method of claim 24 wherein positioning a paper stop near the end of the second media tray includes rotating a fourth portion of the second media tray with respect to a third portion of the second media tray.

26-30. (Cancelled)

31. (Currently Amended) An imaging apparatus comprising:

a housing having an interior cavity and an opening to the interior cavity;

a carriage rod disposed within the interior cavity;

a carriage disposed within the interior cavity and movable along a length of the carriage rod through a length of travel within the interior cavity;

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a carriage swept volume, wherein the swept volume is the profile of the carriage extended along the length of the carriage rod a distance equal to the length of travel of the carriage; and

a first media tray and a second media tray each being at least partially disposed within the carriage swept volume,

wherein one of the first media tray or the second media tray provides an input tray for the imaging apparatus, and the other of the first media tray or the second media tray provides an output tray for the imaging apparatus,

wherein one of the first media tray or the second media tray has a portion forming an exterior surface of the housing when in a stowed position,

wherein the first media tray and the second media tray extend through the opening of the housing when in a deployed position.

32. (Previously Presented) The imaging apparatus of claim 31 wherein the first media tray and the second media tray are disposed within the interior cavity when in a stowed position.

33. (Currently Amended) The imaging apparatus of claim 31 further comprising a cover pivotally attached to the housing capable of substantially covering the interior cavity and the opening to the interior cavity.

34. (Cancelled)

35. (Currently Amended) The imaging apparatus of claim 38 further comprising a cover pivotally attached to the housing capable of substantially covering the interior cavity and the opening to the interior cavity.

36. (Previously Presented) The imaging apparatus of claim 35 wherein one of the first media tray or the second media tray has at least a portion disposed within the interior cavity of the housing and wherein one of the first media tray or the second media tray also has a

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portion positioned between the carriage swept volume and the cover when in a stowed position.

37. (Previously Presented) The imaging apparatus of claim 36 wherein the first media tray and the second media tray are disposed within the interior cavity when in a stowed position.

38. (Currently Amended) An imaging apparatus comprising:

a housing having an interior cavity and an opening to the interior cavity;

a print engine disposed within the interior cavity;

a carriage rod disposed within the interior cavity;

a carriage disposed within the interior cavity and movable along a length of the carriage rod through a length of travel within the interior cavity;

a carriage swept volume, wherein the carriage swept volume is the profile of the carriage extended along the length of the carriage rod a distance equal to the length of travel of the carriage; and

a first media tray and a second media tray each being at least partially disposed within the interior cavity and outside the carriage swept volume when in a stowed position,

wherein one of the first media tray or the second media tray provides an input tray for the imaging apparatus, and the other of the first media tray or the second media tray provides an output tray for the imaging apparatus,

wherein one of the first media tray or the second media tray has a portion forming an exterior surface of the housing when in a stowed position,

wherein the first media tray and the second media tray extend through the opening of the housing when in a deployed position.

39. (Currently Amended) A method comprising:

pivoting a lid of an imaging apparatus from a closed position to an open position to increase access to reveal an opening and enable deployment of a first media tray and a second media tray through the opening; and

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rotating each of the first media tray and the second media tray from a stowed position to a deployed position, including extending each of the first media tray and the second media tray through the opening,

wherein one of the first media tray or the second media tray provides an input tray for the imaging apparatus, and the other of the first media tray or the second media tray provides an output tray for the imaging apparatus,

wherein one of the second media tray or the first media tray is positioned over the other of the second media tray or the first media tray when the second media tray and the first media tray are in the deployed position.

40. (Previously Presented) The method of claim 39 further comprising pivoting the lid of the imaging apparatus from the open position to the closed position while the first media tray and the second media tray are in the deployed position.

41. (Previously Presented) The method of claim 40 further comprising operating the imaging apparatus with the lid in the closed position and the first media tray and the second media tray in the deployed position.

42. (Previously Presented) The method of claim 41 wherein operating the imaging apparatus with the lid in the closed position and the first media tray and the second media tray in the deployed position includes moving media onto one of the first media tray or the second media tray.

43. (Previously Presented) The method of claim 41 wherein operating the imaging apparatus with the lid in the closed position and the first media tray and the second media tray in the deployed position includes removing media from one of the first media tray or the second media tray.

44. (Currently Amended) The imaging apparatus of claim 19 further comprising a cover pivotally attached to the housing and configured to cover the interior cavity and the opening to the interior cavity.

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45. (Previously Presented) The imaging apparatus of claim 1 wherein one of the second media tray or the first media tray nests over the other of the second media tray or the first media tray when the second media tray and the first media tray are in the stowed position.

46. (Previously Presented) The imaging apparatus of claim 19 wherein one of the second media tray or the first media tray nests over the other of the second media tray or the first media tray when the second media tray and the first media tray are in the stowed position.

47. (Previously Presented) The method of claim 39 wherein one of the second media tray or the first media tray nests over the other of the second media tray or the first media tray when the second media tray and the first media tray are in the stowed position.

48. (New) The imaging apparatus of claim 1 wherein the cover is openable to enable deployment of the first media tray and the second media tray.

49. (New) The imaging apparatus of claim 44 wherein the cover covers the first media tray and the second media tray when the first media tray and the second media tray are in the stowed position.

50. (New) The imaging apparatus of claim 44 wherein the cover is openable to enable deployment of the first media tray and the second media tray through the opening of the housing.

51. (New) The imaging apparatus of claim 33 wherein the cover covers the first media tray and the second media tray when the first media tray and the second media tray are in the stowed position.

52. (New) The imaging apparatus of claim 33 wherein the cover is openable to enable deployment of the first media tray and the second media tray through the opening of the housing.

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53. (New) The imaging apparatus of claim 35 wherein the cover covers the first media tray and the second media tray when the first media tray and the second media tray are in the stowed position.

54. (New) The imaging apparatus of claim 35 wherein the cover is openable to enable deployment of the first media tray and the second media tray through the opening of the housing.